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United States Government

Department of Energy

DUE DATE 7-3-91

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Rocky Flats Office

ACTION *Kersh*

EG&G
ROCKY FLATS PLANT
CORRESPONDENCE CONTROL

MAY 31 1991

ERD:SG:4343

Operable Unit No. 2 Woman Creek Historical Data Assessment and Colloid Characterization Study

J.M. Kersh, Associate General Manager
Environmental Restoration and Waste Management
EG&G Rocky Flats, Inc.

As agreed to in the May 22, 1991 meeting with EPA/CDH on the Operable Unit No. 2 Woman Creek Interim Measure/Interim Remedial Action Plan (IM/IRAP), we agreed that we would replace the proposed bench scale testing with a colloid characterization study (4167-DOE-91, attached). This was decided primarily due to the lack of flow from the 903 Pad/Lip area seeps with sufficient activity to conduct bench scale testing. It was decided that a more fruitful approach would be to look at the "dissolved" plutonium question.

The question that needs to be answered is whether or not the "dissolved" (less than 0.45 micron) plutonium/americiuim is really dissolved or in colloidal form and whether or not the sampling of the seeps with low flow (or standing water) results in suspended (colloidal) plutonium/americiuim being characterized as dissolved. In order to address these questions, a Historical Data Assessment (HDA) characterization study and a Colloid Characterization Workplan (CCW) need to be developed.

As agreed to in the May 29, 1991 meeting with your staff, EG&G is to prepare a Historical Data Assessment (HDA) as a stand-alone document and as part of the Woman Creek IM/IRAP. This HDA will need to assess the historical sampling practices (protocols) and analytical results for the surface water and ground water in the 903 Pad/Lip area and compare this with such data as the sampler's log, surface water flow, ground-water levels, and precipitation data. The HDA will have a conclusion and recommendation section. The recommendation section will be the basis for developing a Colloid Characterization Workplan (CCW) to address the colloid question in the surface water and ground water in the vicinity of the 903 Pad/Lip.

The CCW will consider plutonium/americiuim physical and chemical characterization and transport mechanisms. Although the CCW will be separate from the OU2 RFI/RIFS work, the results of the CCW will be included in the RFI/RIFS Report.

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<i>Arndt M</i>	X	X
<i>Anderson G</i>	X	X
<i>Lindberg R</i>	X	X

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Reviewed for Addressee
Corres. Control RFP
6-3-91 *Ci*

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ADMIN RECORDS

Rocky Flats Office

J. M. Kersh
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Please have your staff coordinate these new activities with Scott Grace of my staff at extension 7199.


David P. Simonson
Assistant Manager
for Environmental Management

Attachment

cc w/o Attachment:
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